

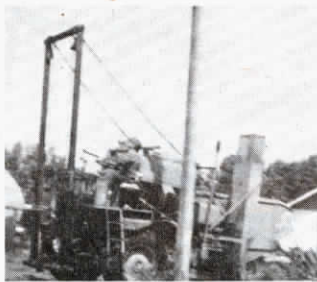
## Turn Your Combine Into A Forklift

If it makes your blood boil to have that \$100,000 combine you just bought sit idle 10 months out of the year, why not do what Dave Jackson did? He turned his combine into a king-size forklift.

Jackson's Oliver combine, which has been at work on his Alberta farm since 1956, is worth much less than \$100,000 but he says he's never liked to see it sit idle during the off season. Last spring, when he needed to move pallets of concrete block around a construction site, he finally came up with a new use for it.

"Because the load is right over the drive wheels, it has tremendous traction. Besides the fork, we've also equipped it with a bucket for loading gravel in a pit. It carries big loads over the roughest terrain," says Jackson.

The combine-mounted forklift, which will lift loads up to 12 ft. off the ground, mounts on the header lift. A 2,800-lb. load is enough to lift the rear end of his Oliver off the ground, says Jackson, so he has to add



weights. The forklift mast is anchored to the combine frame by metal rods and safety cables. The entire unit dismounts in short order when switching back for harvest.

Jackson says the only change he plans to make on the lift is to add live hydraulics to the old combine so he can raise and lower the lift assembly continuously. The lift itself lifts with a winch-driven cable.

Jackson used a lot of scrap parts to build his lift and says a similar fork could be built to fit most any combine.

Contact: FARM SHOW Followup, Dave Jackson, Rt. 1, Innisfail, Alta, Canada TOM 1AO.

## Voltage Suppressor Eliminates Stray Voltage

Reduced milk production, increased mastitis and jumpy animals are often the result of stray dairy barn voltage. "This new Suppressor Transformer solves the problem," says William Bickner, Heron Lake, Minn., a state electrical inspector and designer of the device.

Bickner says his suppressor transformer is safer and less expensive to run than isolating transformers. He suggests that it be installed between the feed in and the main panel in the barn. To install ahead of the main panel, you shut off the power, unfasten the wires from the control panel, mount the unit and then run the wires through the suppressor transformer and reattach them to the panel."

The system will work on either single or 3 phase systems. It works by developing a voltage

which cancels the stray voltage on the neutral, Bickner points out. A green light on the suppressor control, which connects to the transformer with two wires, indicates that it is on and all is okay; a red light indicates the system isn't working.

The control unit has two terminals. One fastens to a ground rod and the other to the incoming neutral wire.

Less than 50 watts are needed to power the unit which plugs into a 110 outlet.

Bickner is looking for a manufacturer for the unit. He estimates that retail cost for the system would be about \$400.

For more information, contact: FARM SHOW Followup, William Bickner, Box 286, Heron Lake, Minn. 56137 (ph 507 793-2646).

## New No-Plug Nozzle Never Needs Cleaning

"Hand unplugging is eliminated with these nozzles," says John Vessels, inventor of a new "no-plug" spray nozzle that he has built and patented but that is not yet on the market.

The nozzle, about 3 times the size of a conventional spray nozzle, consists of a stainless steel canister divided into two chambers, one above the other by a thin rubber diaphragm with a small piston rod in the center of it. There is a water intake into both the upper and lower chambers.

When the lower chamber is flooded with water, it simply exits via the nozzle opening located there. But, when the upper chamber floods, it forces the diaphragm downward and with it the punch, ramming it through the nozzle orifice and forcing out any debris that might have plugged the opening. Once clear, the sprayer is again reversed.

"I became concerned primar-

ily because of the hazards of chemicals. The experts tell us they are safe but who knows what effect they may have 30 years from now. With this invention, you can clean them out from the tractor seat with no exposure whatsoever" says Vessels.

The only sprayer modification necessary with the new nozzle is installation of a two-way valve on the spray pump to reverse direction of liquid. The two-way valve also acts as a shut-off valve, pushing the punch into each nozzle orifice, plugging them during the row end turns so they won't drip.

Vessels has built a prototype nozzle and says that if he can't find a manufacturer interested in the idea, he has plans to produce the units himself.

For more information, contact: FARM SHOW Followup, John B. Vessels, Rt. 1, Box 69, Webster, Ky. 40176 (ph 502 496-4513).

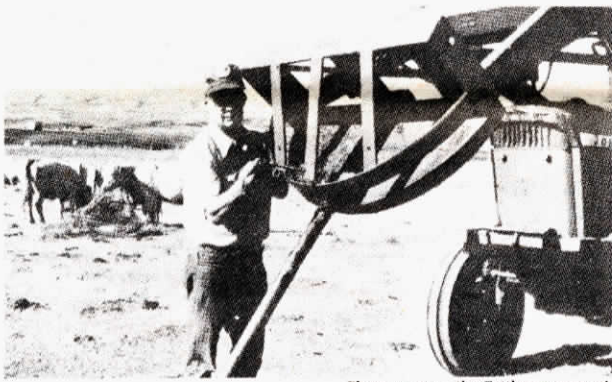
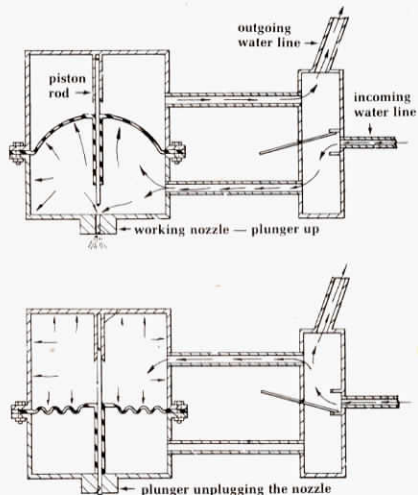


Photo courtesy the Cattlemen magazine

## Big Bale Handler-Unroller

Bob Wittig, Burstall, Sask., decided there had to be a better way to unroll big round bales for feeding to his range cattle.

So, he built himself a big bale handler. It not only loads bales in or out of storage but also transports and unrolls them for feeding.

Key to the system is the 7 ft. steel spike (3 in. dia.) that spears the bales. It pivots off its axis side to side and is held in place from moving when spearing by 2 pins, one on each side, that act like the pins that keep swinging drawbars in place.

After spearing the bale and moving it to the desired area, you place the bale on the ground, pull the pin on the side of the tractor you want the bale rolling on, then cramp the tires sharply opposite the direction you want the bale on and drive forward.

Now the bale will be off to the side of the tractor. You can now drive forward using the friction of the bale against the ground and the forward motion of the tractor to unroll the bale.

Wittig's unit is built to fit onto a John Deere loader. To attach, you remove the bucket and then attach the bale handler using the same pins and hydraulic cylinder that the loader used.

The frame is made of steel and, says Wittig, "anyone with a welder could make one of these". He feels that the bale handler's main use would be for feeding range cattle. He has no plans for building or selling the units but will talk to people interested in the idea.

For more information, contact: FARM SHOW Followup, Bob Wittig, Box 36, Burstall, Sask. Canada SON OHO (ph 306 679-4704).